JC04 Rec'd PCT/PTO 11 OCT 2005

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ATTORNEY'S DOCKET NUMBER TRANSMITTAL LETTER TO THE UNITED STATES VT7-004US DESIGNATED/ELECTED OFFICE (DO/EO/US) CATION O (RAM), sec ALEXAPPLICATION n. see 37 CFR 1.5) **CONCERNING A SUBMISSION UNDER 35 U.S.C. 371** INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PRIORITY DATE CLAIMED PCT/KR2004/000821 8 April 2004 10 April 2003 TITLE OF INVENTION METHOD AND APPARATUS FOR DETERMINING SEARCH RANGE FOR ADAPTIVE MOTION VECTOR FOR USE IN VIDEO ENCODER APPLICANT(S) FOR DO/EO/US In-Seong HWANG et al. Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. The US has been elected (Article 31). х A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) is attached hereto (required only if not communicated by the International Bureau). has been communicated by the International Bureau. x is not required, as the application was filed in the United States Receiving Office (RO/US). An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). is attached hereto. a. b. has been previously submitted under 35 U.S.C. 154(d)(4). 7. X Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. b. have not been made; however, the time limit for making such amendments has NOT expired. d. x have not been made and will not be made. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: An Information Disclosure Statement under 37 CFR 1.97 and 1.98 (2 sheets) with SB/08 Form and 1 Reference. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. A preliminary amendment. An Application Data Sheet under 37 CFR 1.76. 15. A substitute specification. 16. A power of attorney and/or change of address letter. 17. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825. A second copy of the published International Application under 35 U.S.C. 154(d)(4). 18 19. A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).

JC20 Recdferipto 1 1 OCT 2009

PTO-1390 (Rev. 07-2005)
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| U.S. APPLICATION NO. (FEMALE) INTERNATIONAL APPLICATION NO. PCT/KR2004/000821 | | | | | ATTORNEY'S DOCKET NUMBER VT7-004US | | | | | |
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| 20. x Other | items or inform | PC Inte | T No emat | tification of the Rec | cordi | plication (with Inten ng of a Change; PC t if Patentability; Ce | T Not | tification of | f Tra | insmittal of |
| The following fees have been submitted | | | | | | | CAI | LCULATION | NS. | PTO USEONLY |
| 21. x Basic national fee (37 CFR 1.492(a)) | | | | | | \$ | 300.0 | 00 | | |
| 22. x Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) | | | | | | | \$ | 200.0 | 00 | |
| All other situations \$200 23. X Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) \$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority \$100 International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB \$400 All other situations \$500 | | | | | | \$ 500.00 | | | | |
| | TOTAL OF 21, | 22 and 23 = | | | | | \$ | 1,000.0 | 00 | |
| Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. | | | | | | | | | | |
| Total Sheets | Extra Sheets | | | additional 50 or fraction p to a whole number) | 1 | RATE | | | | |
| - 100 = | /50 : | = | | | | x \$250.00 | \$ | | | |
| Surcharge of \$130 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)). | | | | | | \$ | 130.0 | 00 | | |
| CLAIMS | CLAIMS NUMBER FILE | | R FILED NUMBER EXTRA | | RATE | | | | | |
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| MULTIPLE DEPENDENT CLAIM(S) (if applicable) + TOTAL OF ABOVE CALCULATIONS = \$ 1,230.00 | | | | | | | | | | |
| Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½. | | | | | 1,230.00 | | | | | |
| SUBTOTAL : | | | | SUBTOTAL = | \$ | 1,230.0 | 00 | | | |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)). | | | | | s from the earliest | \$ | , | | L - | |
| TOTAL NATIONAL FEE = | | | | | \$ | | 1 | ,230.00 | | |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property + | | | | | \$ | | | | | |
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| b. x Please charge my Deposit Account No. 12-0080 in the amount A duplicate copy of this sheet is enclosed. | ount of \$ to cover the above fees. | | | | | |
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| Account No. 12-0080 . A duplicate copy of this sheet is enclosed. | | | | | | |
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| NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed an granted to restore the International Application to pending status. | | | | | | |
| | , , , () | | | | | |
| | Ken J. | | | | | |
| SEND ALL CORRESPONDENCE TO: | SIGNATURE | | | | | |
| Kevin J. Canning | J | | | | | |
| LAHIVE & COCKFIELD, LLP | Kasta I Octobri | | | | | |
| 28 State Street | Kevin J. Canning | | | | | |
| Boston, Massachusetts 02109 (617) 227-7400 | NAME | | | | | |
| Date: October 11, 2005 CUSTOMER NUMBER: 00959 | | | | | | |
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Application No. (if known): NEW APPLICATION

Attorney Docket No.: VT7-004US

Certificate of Express Mailing Under 37 CFR 1.10

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| on | 11 October 2005 | | | | |
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| | Date | | | | |

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| Signa | ature U | | | | | |
| Kevin J. Canning | | | | | | |
| Typed or printed name of person signing Certificate | | | | | | |
| 35,470 | (617) 227-7400 | | | | | |
| Registration Number, if applicable | Telephone Number | | | | | |

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Transmittal Letter (3 sheets in duplicate); Information Disclosure Statement (2 sheets) with Form PTO/SB/08 (1 sheet) and 1 Reference; PCT International Published Application (WO 2004/091222 A1) (with International Search Report attached) (33 sheets); PCT Notification of the Recording of a Change (1 sheet); PCT Notification of Transmittal of International Preliminary Report if Patentability (5 sheets); Application Data Sheet (3 sheets); Certificate of Express Mailing (1 sheet); and Return Postcard.